

PRODUCT INFORMATION PACKET



Model No: LM16222
Catalog No: LM16222
250 HP General Purpose Motor, 3 phase, 3600 RPM, 460 V, 449TS Frame, TEFC
General Purpose Motors



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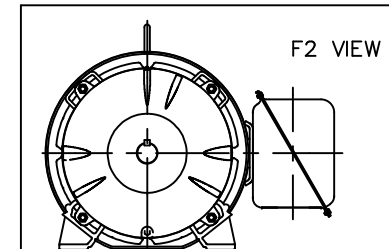
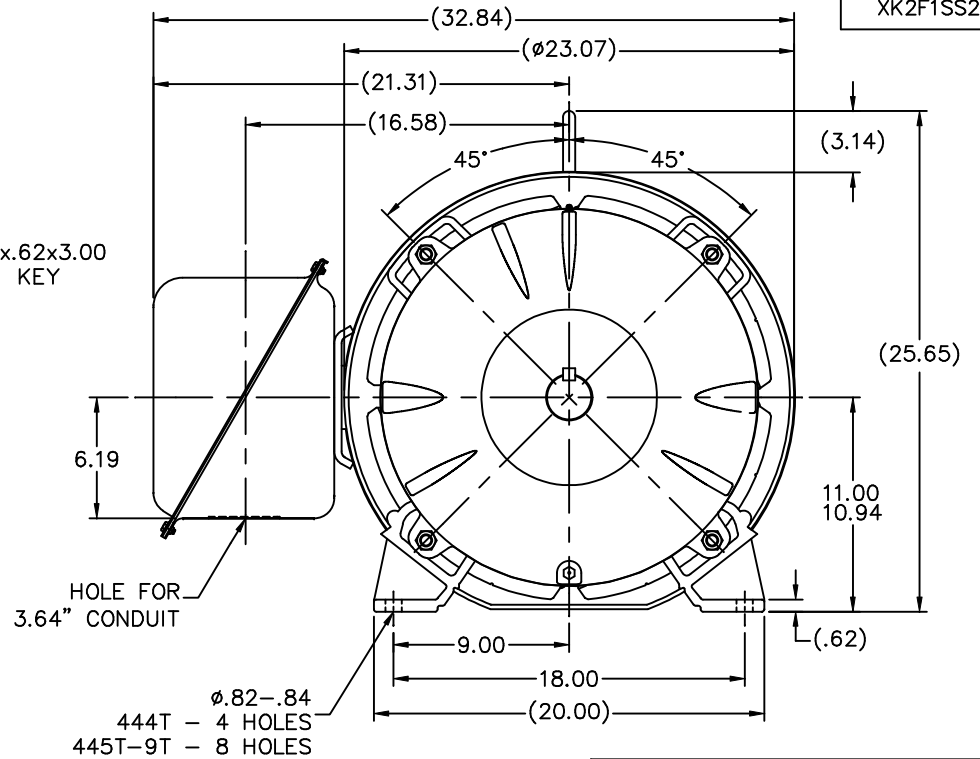
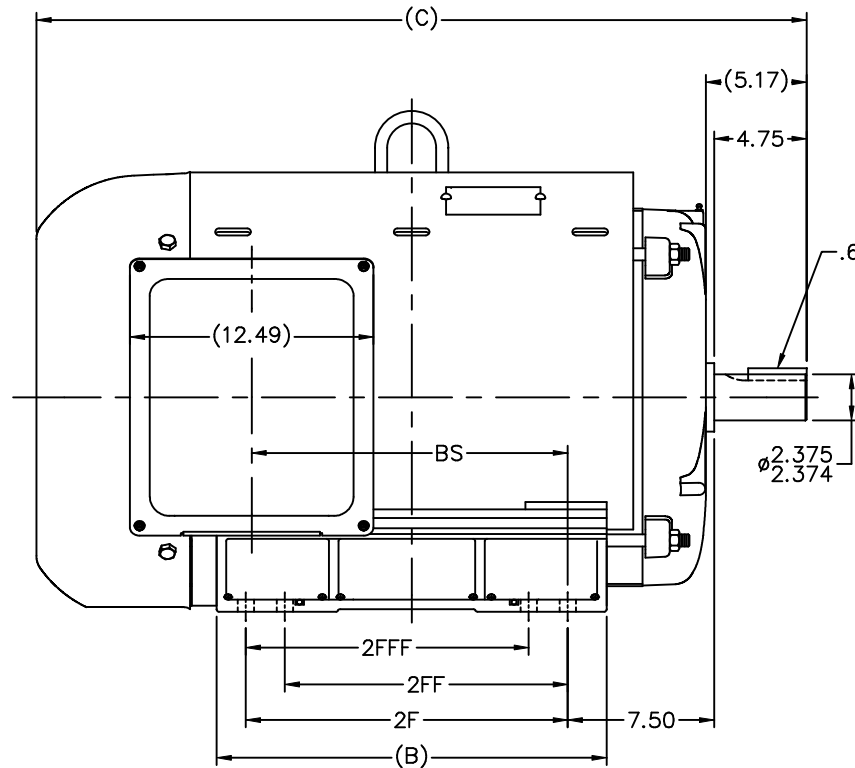
Nameplate Specifications

Output HP	250 Hp	Output KW	187.0 kW
Frequency	60 Hz	Voltage	460 V
Current	263.0 A	Speed	3580 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	92.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	447/449TS	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	315	Opp Drive End Bearing Size	315
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

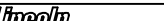
Technical Specifications

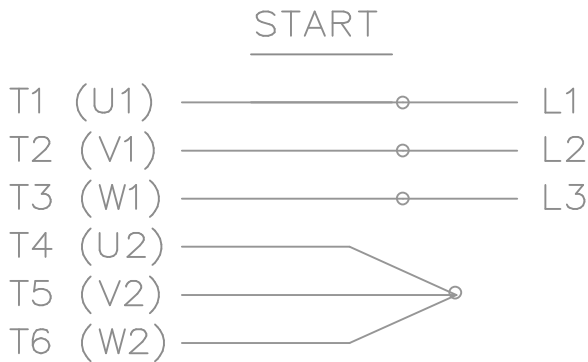
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	2	Rotation	Reversible
Resistance Main	.016 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	TS	Overall Length	47.99 in
Frame Length	31.67 in	Shaft Diameter	2.375 in
Shaft Extension	4.75 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7340-LN	Outline Drawing	XK2F1SS2-3167

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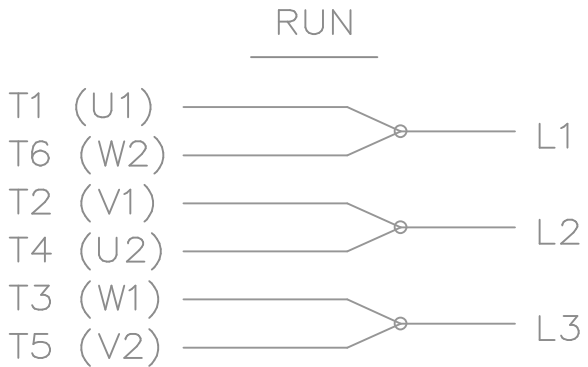
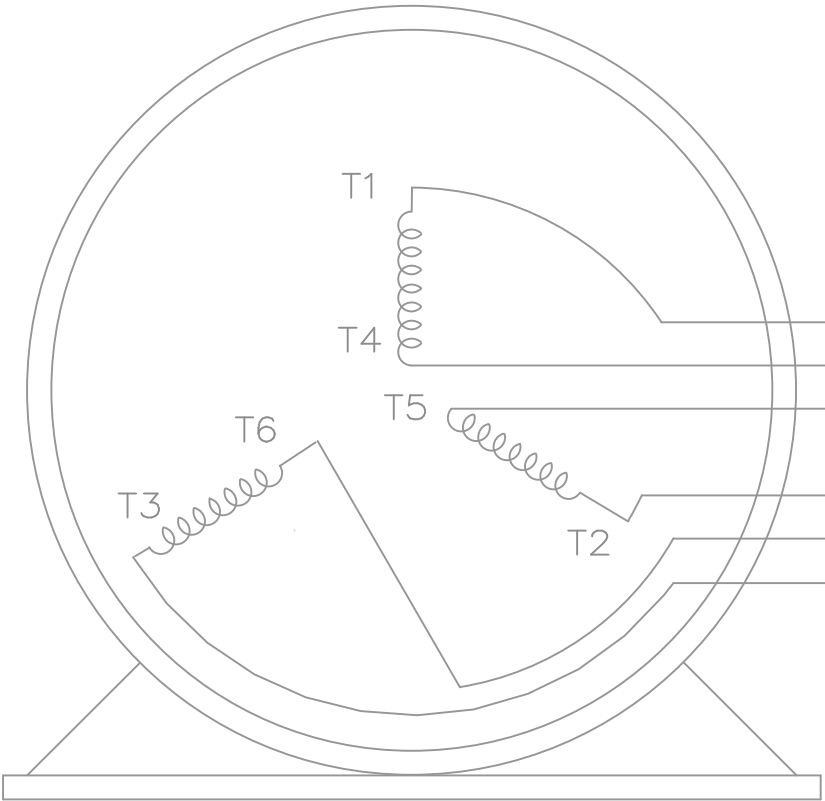


- NOTES:
1. CONDUIT BOX CAN BE ROTATD IN 90° STEPS.
 2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

												TOLERANCES UNLESS SPECIFIED				DRAWN HLB 09-04-2001						
												DEC. INCHES				CHK DRS 09-05-2001						
												.X ±.1				APPD TB 09-05-2001						
2117	444TS	37.49		18.00	14.50			14.20	3	ADDED DRAIN PLUG PER BRACKET CHANGE CN 37358	MSG 05-10-2004	ML	.XX ±.03	TITLE OUTLINE NEMA MOTORS		SCALE 1=6						
2317	445TS	39.49		20.00	16.50	14.50	14.50	16.20	2	REVISED 2FF & 2FF DIMENSIONS PER CN 29200-2093	MSG 10-30-2001		.XXX ±.005	440TS TEFC UE		REF						
2667	447TS	42.99		23.50	20.00	16.50	16.50	19.70	1	NEW DRAWING - MU38667	HLB 09-05-2001		.XXXX ±.0005	MAT'L		FMF						
3167	449TS	47.99		28.50	25.00	20.00	20.00	23.95	NO.	REVISION	BY & DATE	CHK	ANG ±7/30"	FINISH		PREV						
									THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK. ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED.					RFP	CAD FILE	XK2F1SS2		SIZE	DRAWING NO.	PAGE	OF	REV.
DASH FRAME C AG B 2F 2FF 2FFF BS									THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT					DIST BY	B	XK2F1SS2		B	XK2F1SS2		3	



THREE PHASE — Y START
 Δ RUN MOTOR



T1 (U1)
 T4 (U2)
 T5 (V2)
 T2 (V1)
 T6 (W2)
 T3 (W1)

T6CK
 T6BM
 T4CC
 T2DL
 T4C

NOTE:
 IEC LEAD MARKINGS ARE NOTED
 IN PARENTHESES

VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			DRAWN BLR 10-04-1999			
				DEC.	INCHES		CHK DRS 10-04-1999			
				.X	±.1		APPD TB 10-04-1999			
3	REVISED TO MATCH M.E. ORIGINAL	TAT 07-25-2005	ML	.XX	±.02	TITLE CONNECTION DIAGRAM 3ø – WYE START DELTA RUN			SCALE 1=1	
2	REVISED DRAWING MISTAKE CN 29200-2980	ERH 05-15-2003	ML	.XXX	±.005				REF	
1	NEW DRAWING	BLR 10-09-1999		.XXXX	±.0005	MAT'L.			FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH			PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT – DO NOT SCALE THIS PRINT			RFP		CAD FILE ee7340_In			SIZE A	DRAWING NO. EE7340-LN	PAGE OF 3
			DIST WA-LB-SB							



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7340-LN
OUTLINE: XK2F1SS2-3167
WINDING: L4492021

CAT #: LM16222

R1 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
250	187	3600	3580	447/449TS	TEFC	TFR	H	A

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	263	HYE START DELTA RUN	CONT	F	1.15	40	3300

F.L. EFF	95.8	3/4 LD EFF	96.2	1/2 LD EFF	95.8	GTD EFF		ELECT. TYPE	
F.L. PF	92.5	3/4 LD PF	93.0	1/2 LD PF	92.0	95.0		SQ CAGE IND RUN	

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
367 LB-FT	2,015	700 LB-FT 191%	1,000 LB-FT 272%	60

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
999 dBA	1008 dBA		0.00 LB-FT²	0 LB-FT²	0 SEC.	0	0 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTSaver

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	TS	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
315 315						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.014	0.007	0.099	0.08	7.537	0.150	ODE

* N O T E S *			INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE ENCODER: NONE NONE NONE NONE PPR

DATE: 9/11/2018	BRAKE: NONE	
	NONE	NONE
	FT-LB: NA	
VOLTAGE: NONE		HZ:
UL: V-INS, CONST UL REC		

Data Sheet

Date: 9/11/2018

LM16222



Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.0	73.5	132	196	263	303	333	2,015	
Torque (ft-lb)	0.00	91.0	183	275	367	423	460	700	
RPM	3600	3595	3590	3585	3580	3,575	3570	0	
Efficiency (%)		93.6	95.8	96.2	95.8	95.8	95.8		
P.F. (%)	9.0	84.5	92.0	93.0	92.5	92.5	92.5	28.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	1800	3450	3580	3600					
Current (Amps)	2,015	1,800	1,300	263	35.0					
Torque (ft-lb)	700	625	1,000	367	0.00					

— Efficiency (%)

— P.F. (%)

— Current (Amps)

LOAD	Efficiency (%)	P.F. (%)	Current (Amps)
0%		9.0	35.0
20%	93.6	88.0	50.0
40%	95.0	91.0	75.0
60%	96.0	93.0	100.0
80%	96.2	93.0	125.0
100%	95.5	92.5	150.0
120%	95.0	92.5	175.0
125%			263.0

Information Block				
HP	250.0			
Sync. RPM	3600			
Frame	449			
Enclosure	TEFC			
Construction	TFR			
Voltage	460	V		
Frequency	60	Hz		
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	60	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	1,000	feet		
Rotor/Shaft wk ²	0.00	Lb-Ft ²		
Ref Wdg	L4492021	R1		
Sound Pressure @ 1M	999	dBA		
VFD Rating	NONE			
Outline Dwg	XK2F1SS2-3167			
Conn. Diag	A-EE7340-LN			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0140	0.0070	0.0990	0.0800	7.537

Speed - Torque Curve

